

FIG. 1
(PRIOR ART)

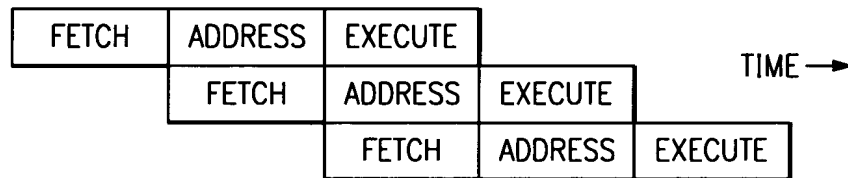


FIG. 4
(PRIOR ART)

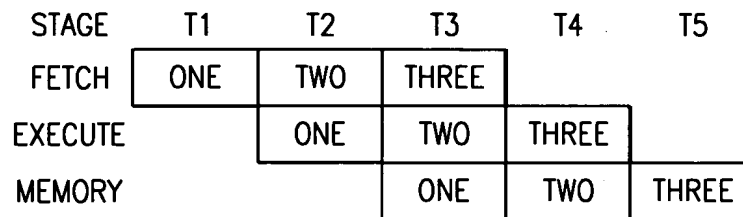


FIG. 6
(PRIOR ART)

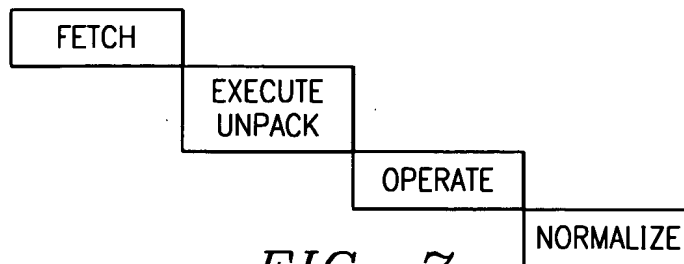


FIG. 7
(PRIOR ART)

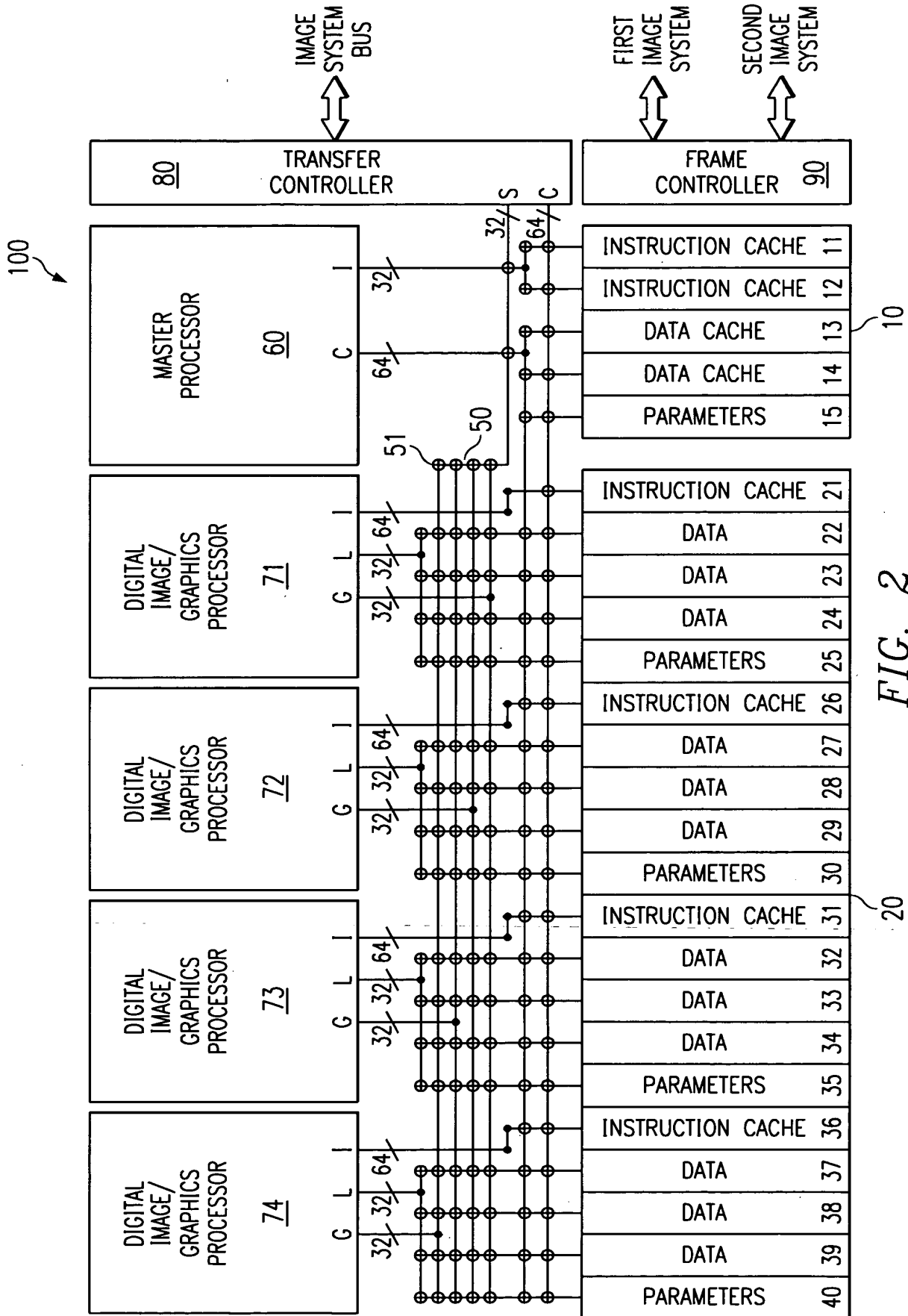
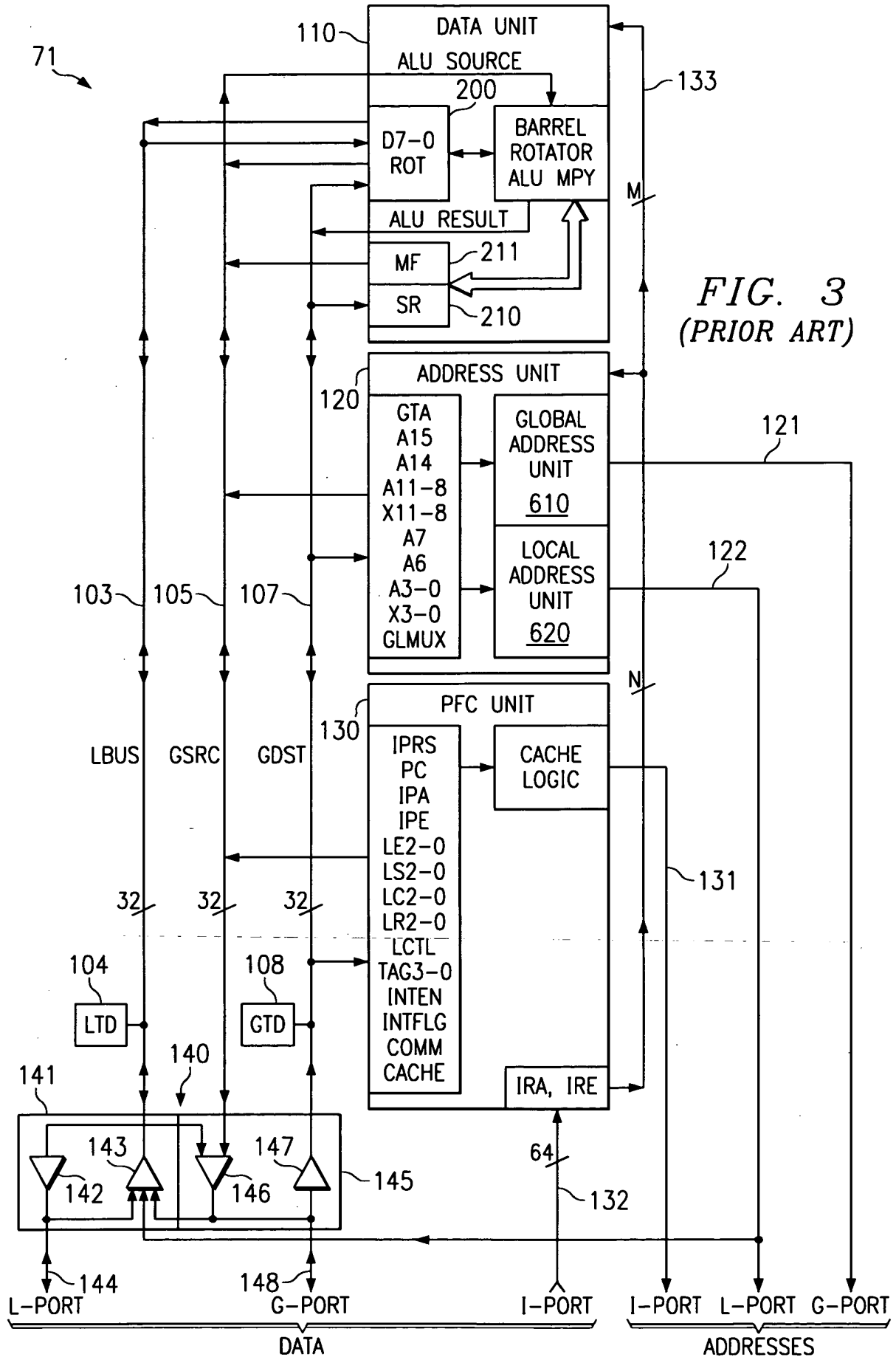


FIG. 2
(PRIOR ART)



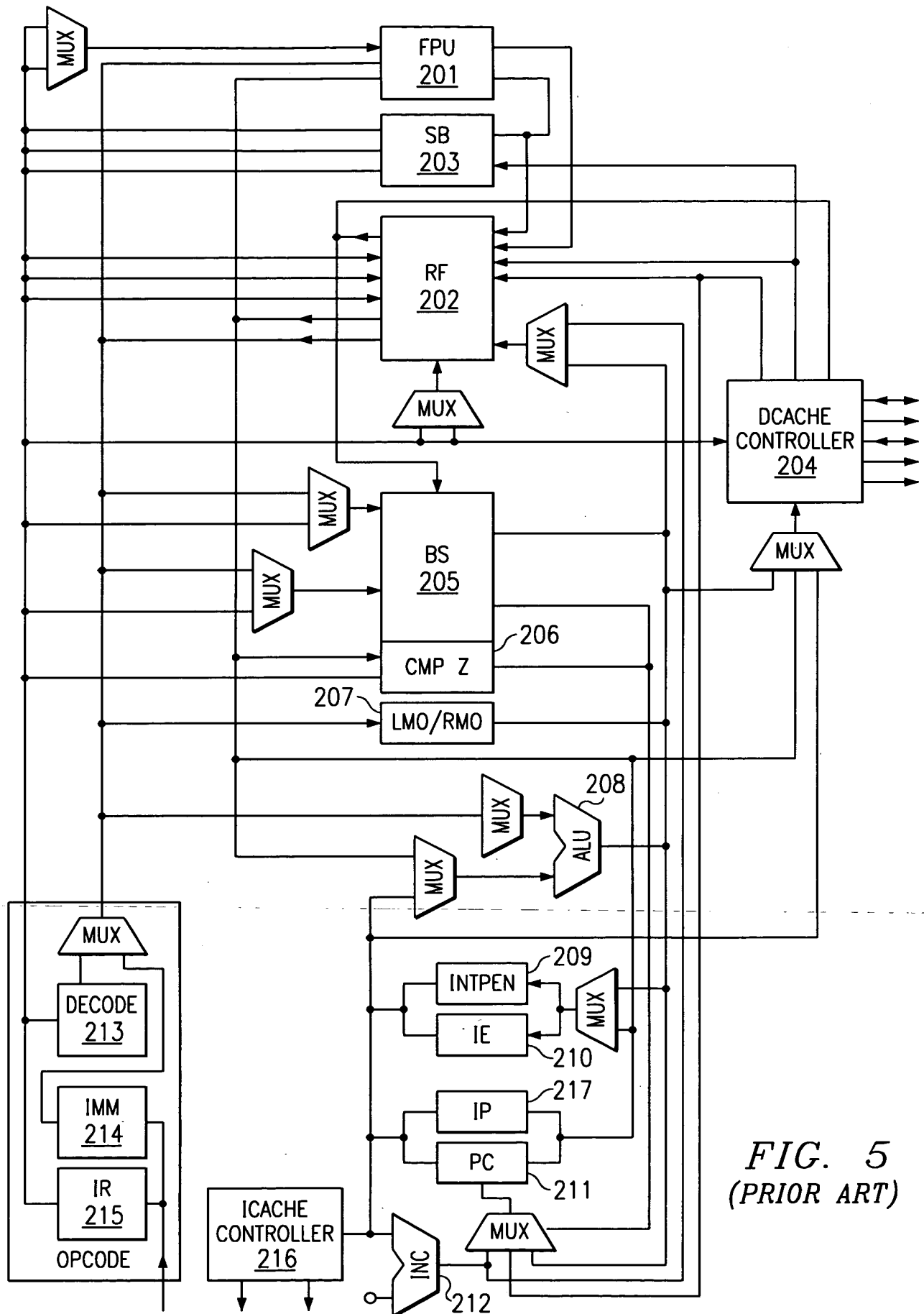


FIG. 5
(PRIOR ART)

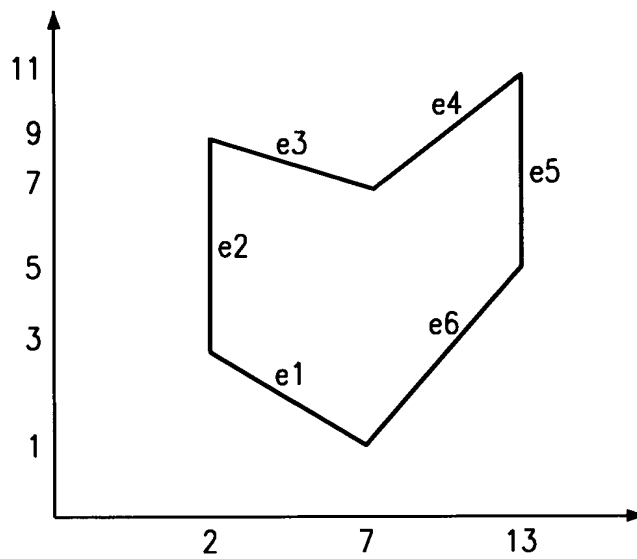


FIG. 8

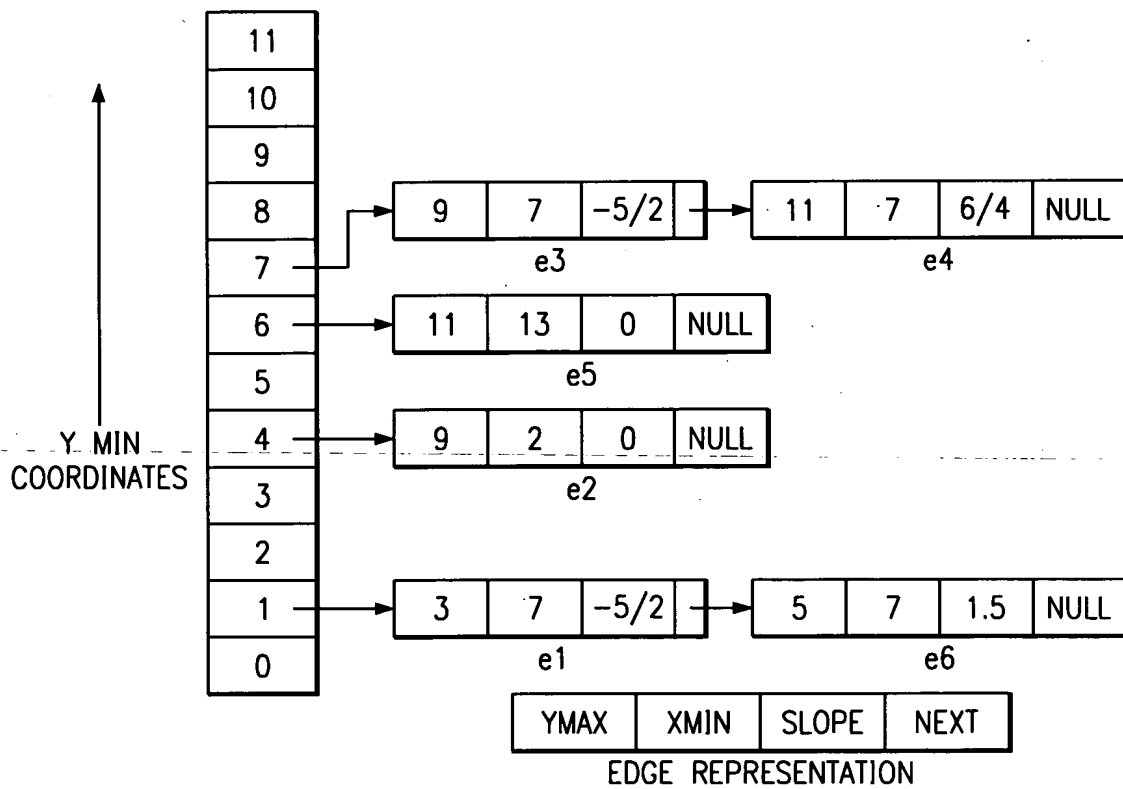


FIG. 9
(PRIOR ART)

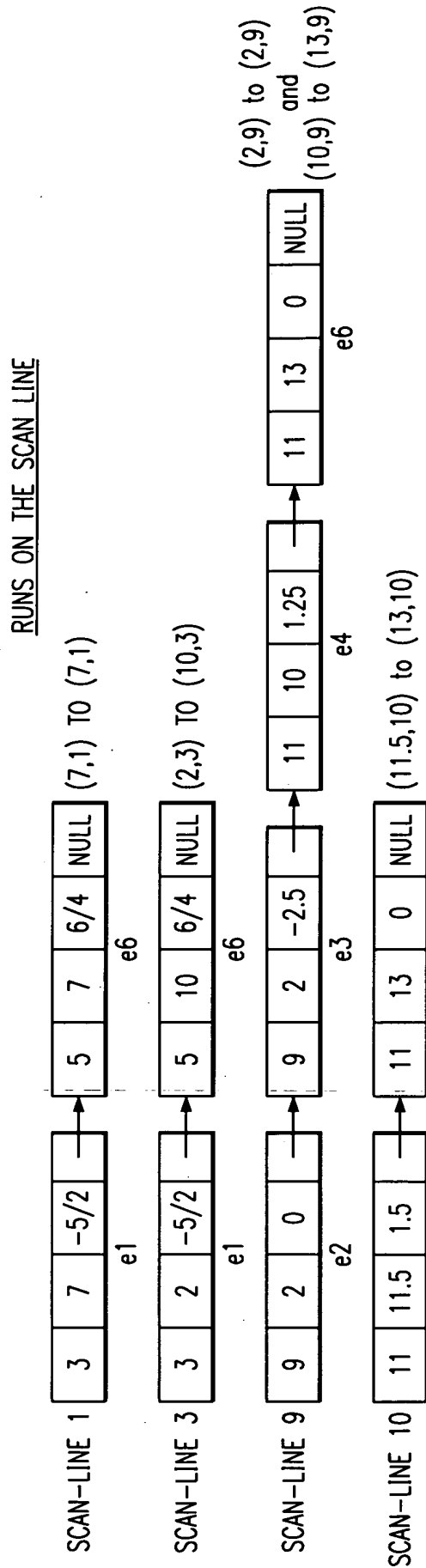


FIG. 10
(PRIOR ART)

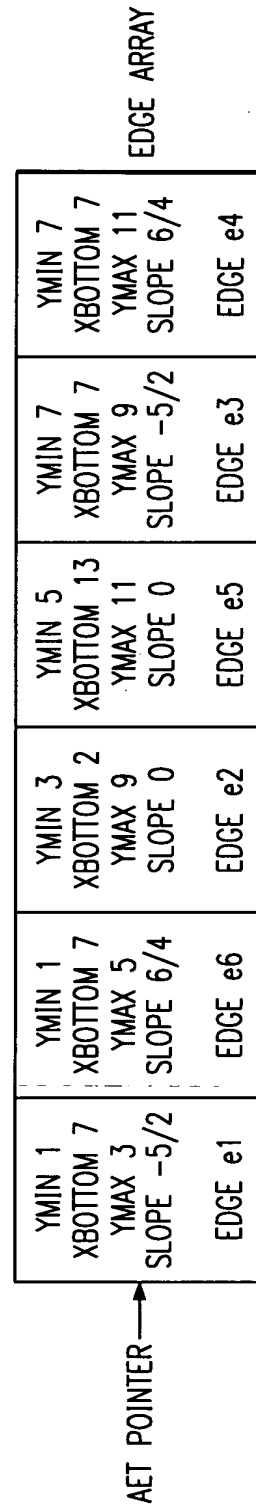


FIG. 11

FIG. 12a

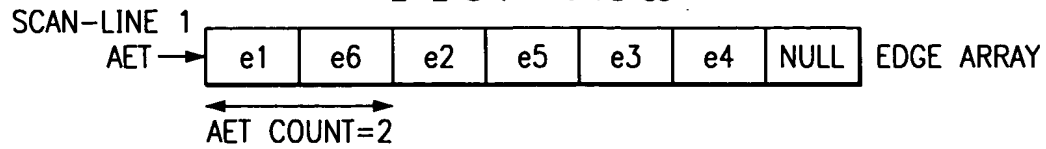


FIG. 12b

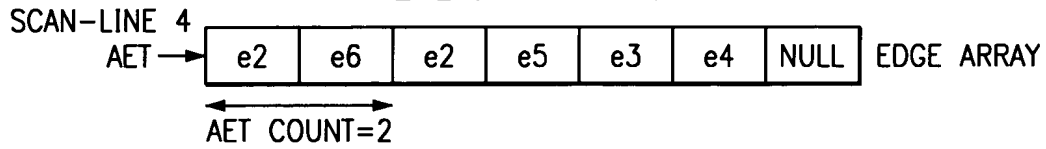


FIG. 12c

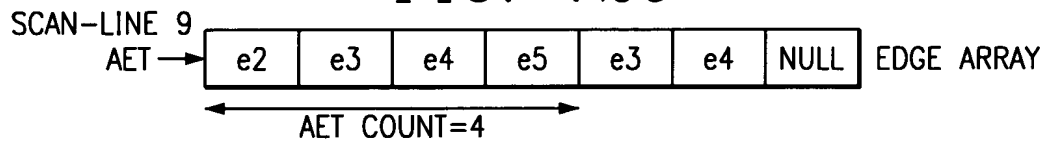


FIG. 13a
(PRIOR ART)

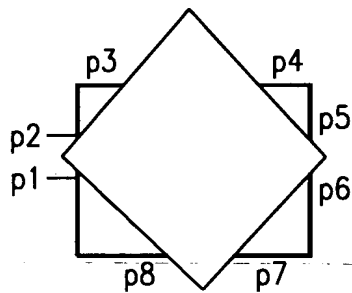


FIG. 13b
(PRIOR ART)

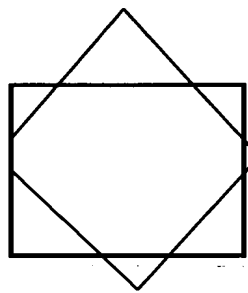
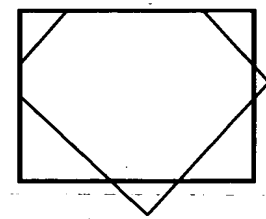
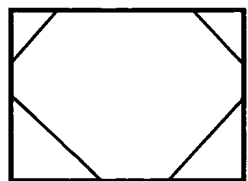


FIG. 13c
(PRIOR ART)



CLIP WITH
RIGHT EDGE ↓

SQUARE=CLIP POLYGON
DIAMOND=SUBJECT POLYGON



CLIP WITH
BOTTOM EDGE ←

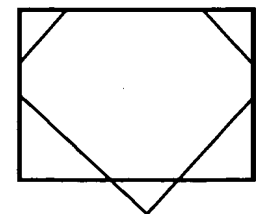
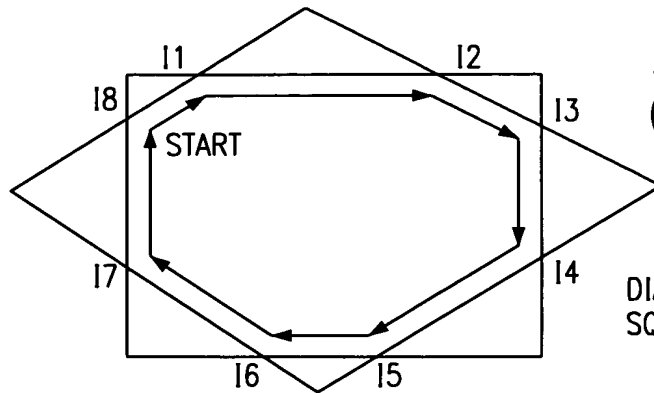
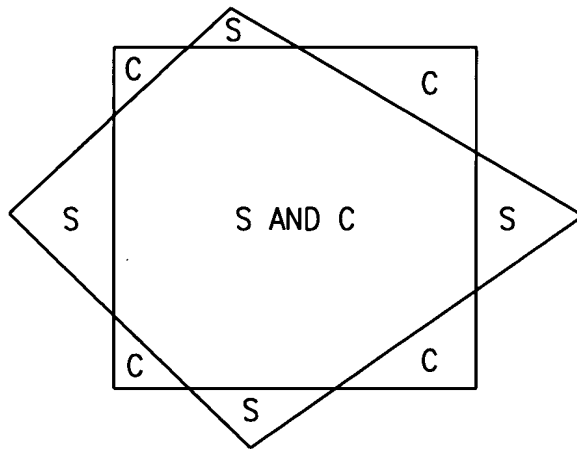


FIG. 13e
(PRIOR ART)

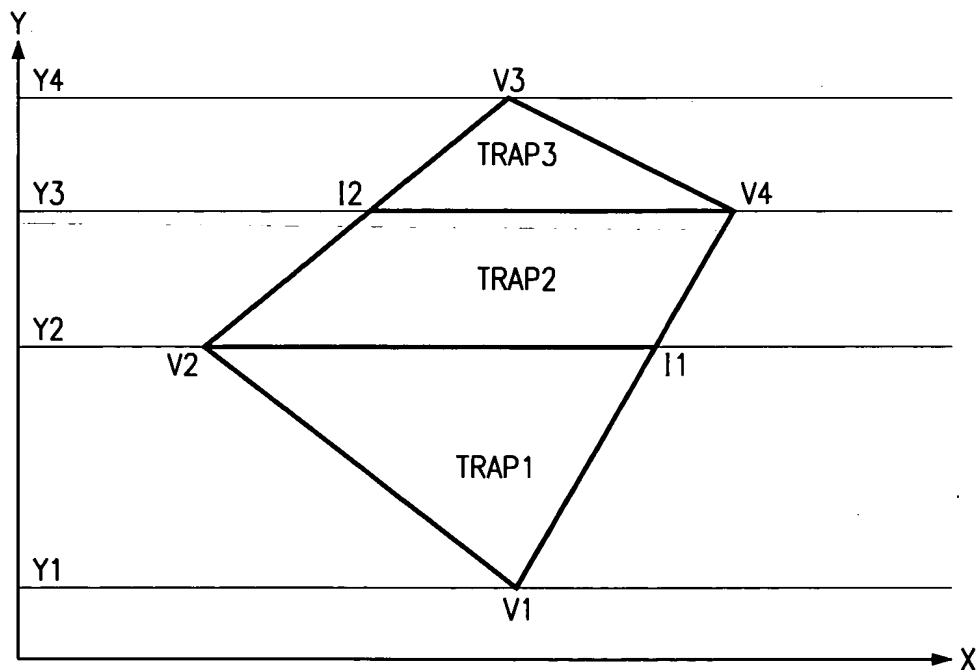
FIG. 13d
(PRIOR ART)



DIAMOND=SUBJECT POLYGON
SQUARE=CLIP POLYGON



S=SUBJECT POLYGON
C=CLIP POLYGON



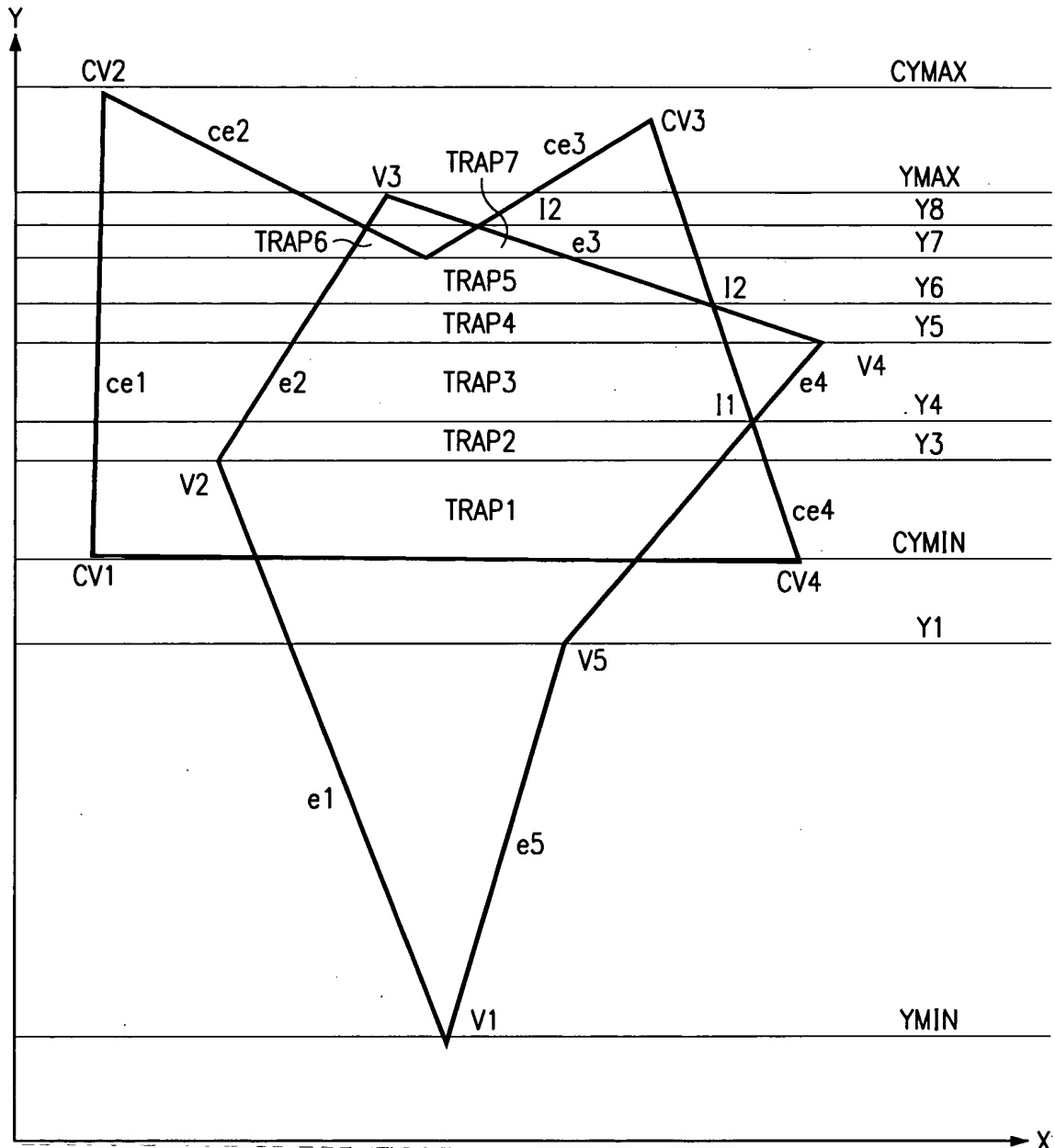


FIG. 17

CE1	x1	CE4	x2
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AET OF CLIP POLYGON AT SCANLINE CYMIN

E1	x3	E4	x4
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AET OF SUBJECT POLYGON AT SCANLINE CYMIN

$x1, x2, x3, x4$ XBOTTOM VALUES OF RESPECTIVE EDGES.


FROM FIGURE 17, $x1 < x3$ AND $x2 > x4$


$x_{left} = \text{MAXIMUM}(x1, x3)$ i.e. EDGE E1

$x_{right} = \text{MINIMUM}(x2, x4)$ i.e. EDGE E4

FIG. 18

AETs AT SCANLINE Y7

ce1 xb1	ce2 xb2	ce3 xb3	ce4 xb4	
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e2 xb5	e3 xb6	
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xb1...xb6 ARE RESPECTIVE XBOTTOMS
OF THE EDGES IN THE AETs

FROM FIGURE 17, $xb1 < xb5$ AND $xb4 > xb6$

xleft=MAXIMUM (xb1,xb5) i.e. EDGE ce1

xright=MINIMUM (xb2,xb6) i.e. EDGE ce2

SECOND TRAPEZOID IS POSSIBLE AS THE AETs DID NOT REACH THE END OF LIST

xleft=MINIMUM (xb3,xb6) i.e. EDGE ce3

xright=MINIMUM (xb4,xb6) i.e. EDGE e3

FIG. 19

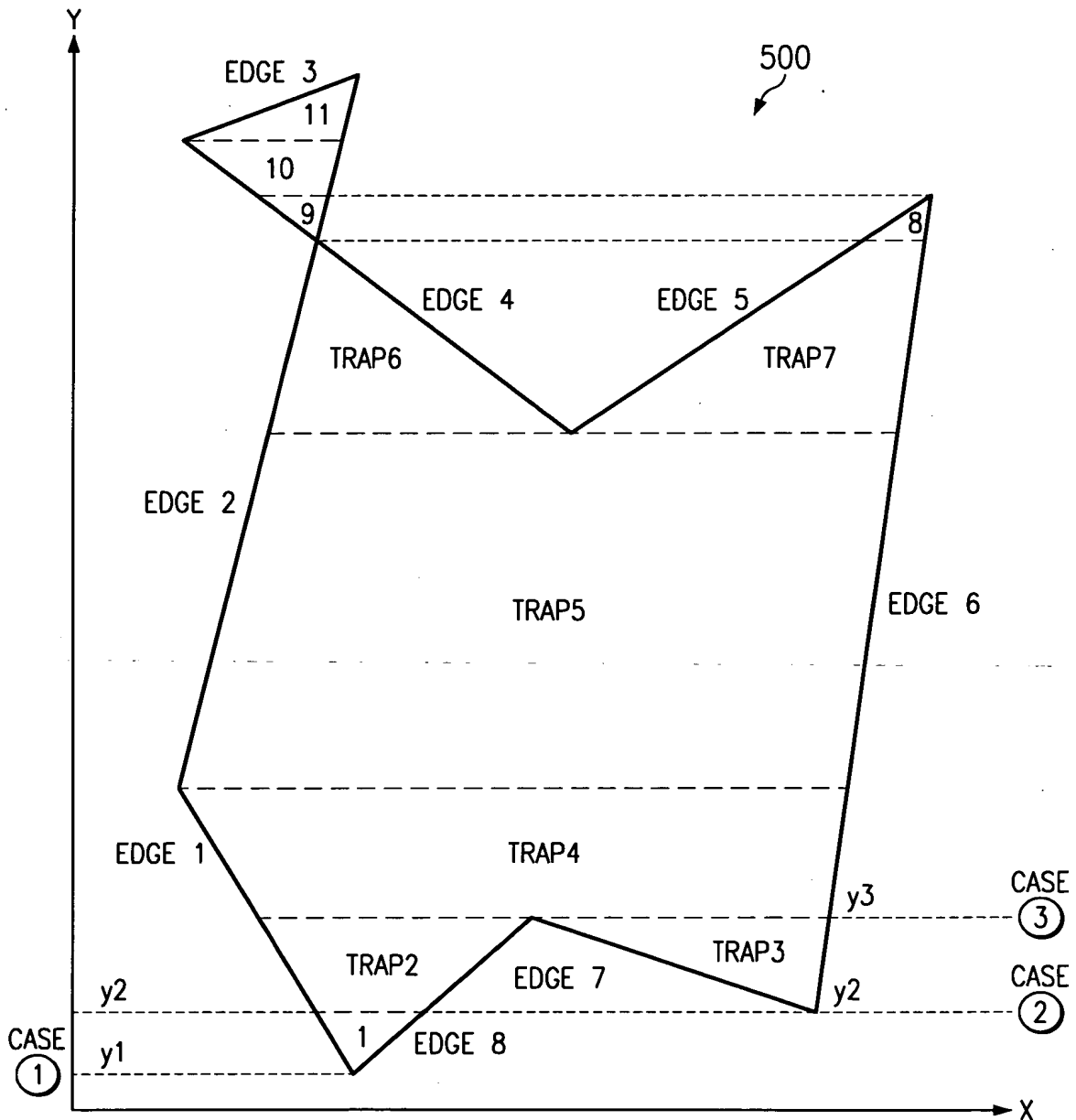


FIG. 20

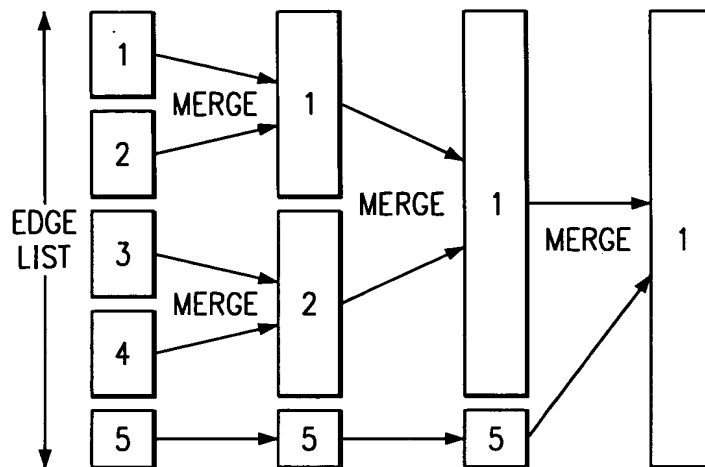


FIG. 21

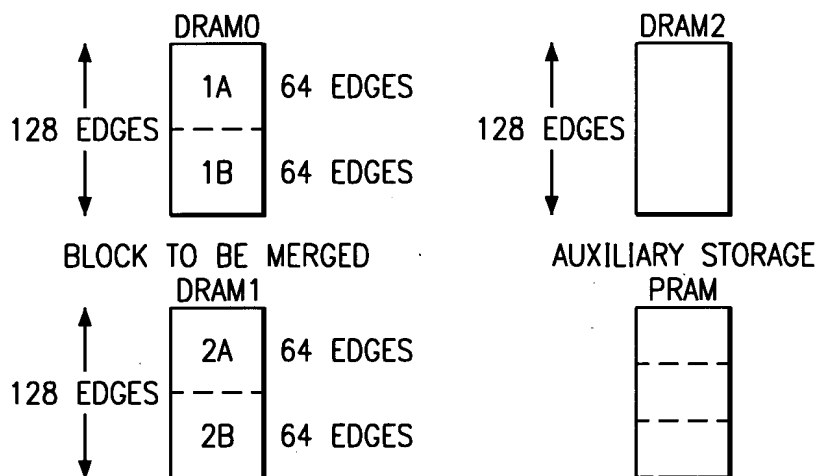


FIG. 22

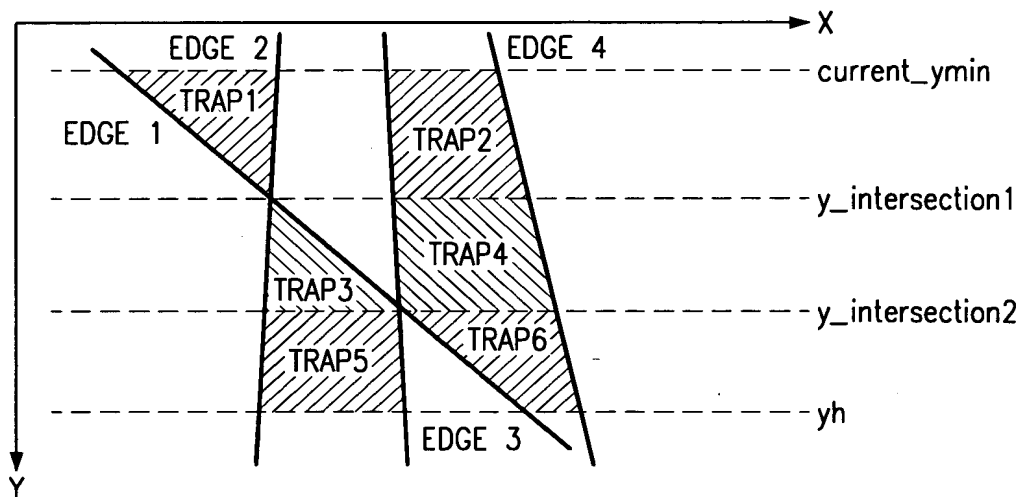


FIG. 23

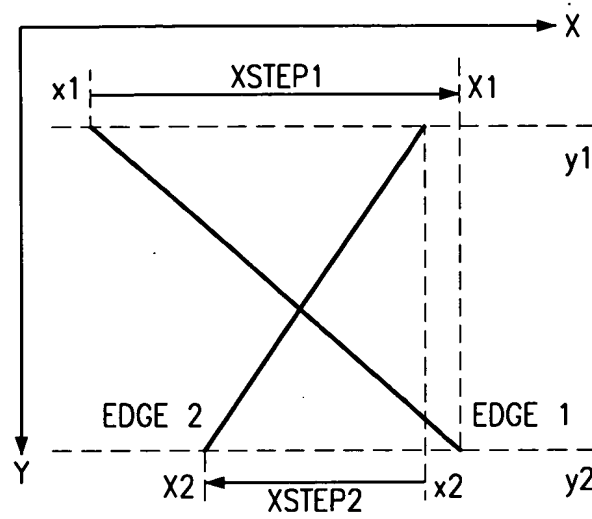


FIG. 24

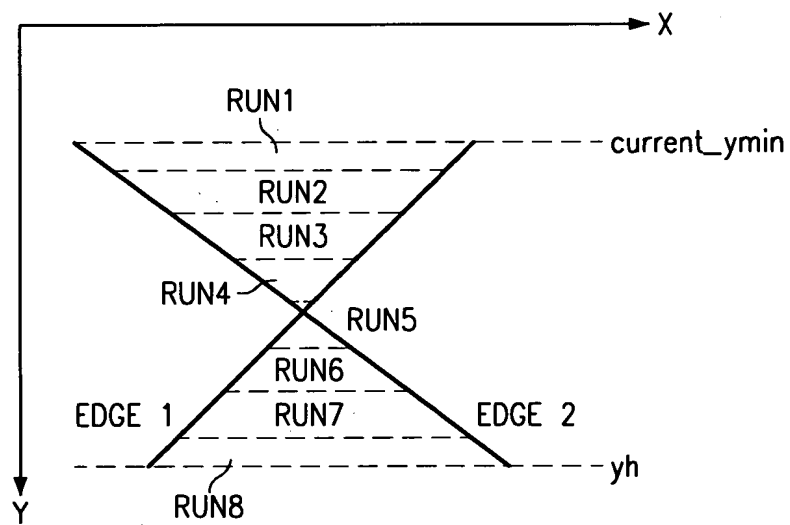
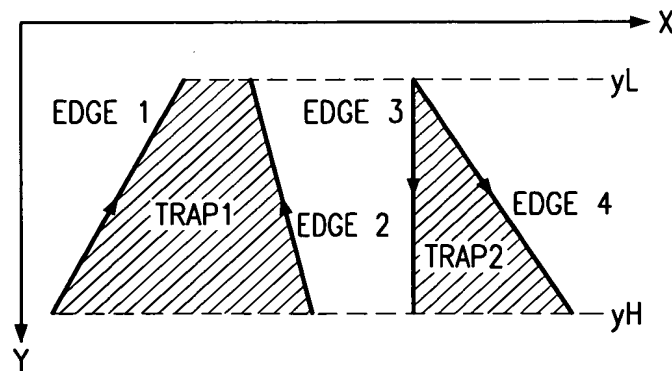


FIG. 25



AET(EDGE TABLE)	EDGE 1	EDGE 2	EDGE 3	EDGE 4
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FIG. 26

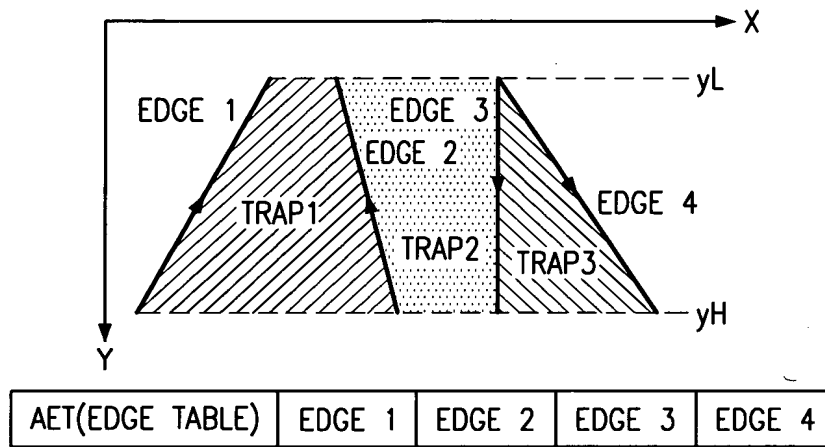


FIG. 27

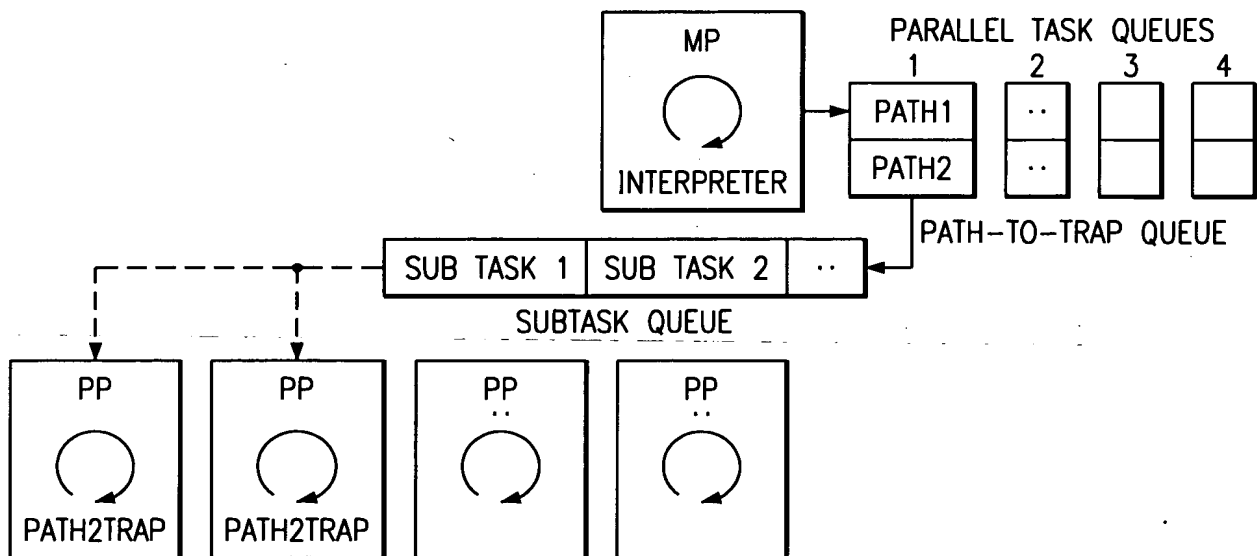


FIG. 28